

(19)



(11)

EP 2 457 999 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
17.04.2013 Bulletin 2013/16

(51) Int Cl.:
C12N 5/00 (2006.01) C12N 5/0735 (2010.01)

(43) Date of publication A2:
30.05.2012 Bulletin 2012/22

(21) Application number: **11190776.2**

(22) Date of filing: **07.12.2003**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IT LI LU MC NL PT RO SE SI SK**

(30) Priority: **16.12.2002 US 433619 P**

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
03813286.6 / 1 572 984

(27) Previously filed application:
07.12.2003 PCT/IL03/01030

(71) Applicant: **Technion Research & Development
Foundation Ltd.
32000 Haifa (IL)**

(72) Inventors:
• **Amit, Michal
20142 Misgav (IL)**
• **Itskovitz-Eldor, Joseph
34987 Haifa (IL)**

(74) Representative: **Dennemeyer & Associates S.A.
55, rue des Bruyères
1274 Howald (LU)**

(54) **Culture medium for pluripotent stem cells**

(57) A culture medium which comprises transforming
growth factor β_1 ($TGF\beta_1$) and basic fibroblast growth fac-
tor (bFGF), wherein said bFGF is provided at a concen-
tration of at least 2 ng/ml, said culture medium being ca-

pable of maintaining pluripotent stem cell in an undiffer-
entiated state.

EP 2 457 999 A3



EUROPEAN SEARCH REPORT

Application Number
EP 11 19 0776

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 00/17321 A2 (MASSACHUSETTS INST TECHNOLOGY [US]) 30 March 2000 (2000-03-30) * example 2 *	1-15	INV. C12N5/00 C12N5/0735
X	WO 01/21766 A2 (CELL SCIENCE THERAPEUTICS [US]; PYKETT MARK J [US]; ROSENZWEIG MICHAEL) 29 March 2001 (2001-03-29) * page 23, lines 16-17 * * page 26, lines 7-8, 18-19 * * page 29, lines 15-16 *	1-15	
X	US 5 612 211 A (WILSON ELAINE L [US] ET AL) 18 March 1997 (1997-03-18) * column 25, lines 60-63; table 4 *	1-15	
A	XU CHUNHUI ET AL: "Feeder-free growth of undifferentiated human embryonic stem cells", NATURE BIOTECHNOLOGY, vol. 19, no. 10, October 2001 (2001-10), pages 971-974, XP002282070, ISSN: 1087-0156, DOI: 10.1038/NBT1001-971	1-15	TECHNICAL FIELDS SEARCHED (IPC)
A	WO 01/51616 A2 (GERON CORP [US]; CARPENTER MELISSA K [US]; FUNK WALTER D [US]; GOLD JO) 19 July 2001 (2001-07-19)	1-15	C12N
X,P	AMIT M ET AL: "Feeder layer- and serum-free culture of human embryonic stem cells", BIOLOGY OF REPRODUCTION, NEW YORK, NY [U.A.] : ACADEM. PRESS, US, vol. 70, January 2004 (2004-01), pages 837-845, XP002978624, ISSN: 0006-3363, DOI: 10.1095/BIOLREPROD.103.021147 * published online 19 November 2003 * * the whole document *	1-15	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 11 March 2013	Examiner Teyssier, Bertrand
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

 1
EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 11 19 0776

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

11-03-2013

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0017321 A2	30-03-2000	AT 311437 T	15-12-2005
		CA 2344399 A1	30-03-2000
		DE 69928678 T2	20-07-2006
		ES 2251842 T3	01-05-2006
		JP 2004502401 A	29-01-2004
		US 6582960 B1	24-06-2003
		WO 0017321 A2	30-03-2000
WO 0121766 A2	29-03-2001	EP 1218487 A2	03-07-2002
		WO 0121766 A2	29-03-2001
US 5612211 A	18-03-1997	US 5612211 A	18-03-1997
		US 5817773 A	06-10-1998
WO 0151616 A2	19-07-2001	AU 751321 B2	15-08-2002
		AU 2639501 A	24-07-2001
		CA 2388811 A1	19-07-2001
		CN 1416462 A	07-05-2003
		CN 101792732 A	04-08-2010
		EP 1250420 A2	23-10-2002
		EP 2270504 A2	05-01-2011
		IL 141742 A	10-12-2006
		IL 177324 A	29-12-2011
		JP 4919445 B2	18-04-2012
		JP 2003111588 A	15-04-2003
		JP 2003530828 A	21-10-2003
		US 6667176 B1	23-12-2003
		US 2002019046 A1	14-02-2002
		US 2002022268 A1	21-02-2002
		US 2002072117 A1	13-06-2002
		US 2002081724 A1	27-06-2002
		US 2002090723 A1	11-07-2002
		US 2002137204 A1	26-09-2002
		US 2002151053 A1	17-10-2002
		US 2005158855 A1	21-07-2005
		US 2009291495 A1	26-11-2009
		US 2009305405 A1	10-12-2009
		US 2012322146 A1	20-12-2012
		WO 0151616 A2	19-07-2001

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82